

PART B - FEE(S) TRANSMITTAL

.Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Not	e: Use Block 1 for any change of address)
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09/24/2004

HUMAN GENOME SCIENCES INC INTELLECTUAL PROPERTY DEPT. 14200 SHADY GROVE ROAD

ROCKVILLE, MD 20850 11/24/2004 NNGUYEN2 00000247 083425 09830230

01 FC:1501 02 FC:8001

1370.00 DA 3.00 DA

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Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (703) 746-4000, on the date indicated below.

(Depositor's name)

(Signature

(Date

Inc.

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. Gil H. Choi **PB481US** 3043 09/830,230 09/27/2001

TITLE OF INVENTION: LYME DISEASE VACCINES

APPLN. TYPE	SMALL ENTITY	ISSUE F	EE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	30 \$0		\$1330	12/27/2004
EXA	MINER	ART UN	IT	CLASS-SUBCLASS	1	
TUNG	, JOYCE	1637		435-006000	-	
CFR 1.363). Change of correspon Address form PTO/SB/1 "Fee Address" indica PTO/SB/47; Rev 03-02 Number is required. ASSIGNEE NAME ANI	dence address or indication of "F addence address (or Change of 122) attached. ation (or "Fee Address" Indic- or more recent) attached. Us D RESIDENCE DATA TO E	Correspondence ation form e of a Customer BE PRINTED ON Tollow, no assignee	(1) the na or agents (2) the na registered 2 registere listed, no	pear on the patent. If an assig	a member a ness of up to no name is name is no name is name	Genome Sciences
PLEASE NOTE: Unles recordation as set forth i	n 37 CFR 3.11. Completion	of this form is NO		for filing an assignment. CE: (CITY and STATE OR CC		
recordation as set forth i (A) NAME OF ASSIGN Please check the appropriat	n 37 CFR 3.11. Completion NEE	of this form is NO' (B ories (will not be pr	P) RESIDENG	CE: (CITY and STATE OR CC	UNTRY)	group entity 🚨 Government
recordation as set forth i (A) NAME OF ASSIGN Please check the appropriat The following fee(s) are	n 37 CFR 3.11. Completion NEE	of this form is NO' (B ories (will not be pr	RESIDENCE inted on the page 1. Payment of	Description of the control of the co	UNTRY) Corporation or other private	group entity 🚨 Government
recordation as set forth i (A) NAME OF ASSIGN Please check the appropriat a. The following fee(s) are I issue Fee	n 37 CFR 3.11. Completion NEE e assignee category or category enclosed:	of this form is NO (B	inted on the portion of the portion	ce: (CITY and STATE OR CO	Corporation or other private p	group entity 🚨 Government
recordation as set forth i (A) NAME OF ASSIGN Please check the appropriat a. The following fee(s) are	in 37 CFR 3.11. Completion NEE The assignee category or category enclosed: Small entity discount permitted.	of this form is NO (B	inted on the position of the p	Description of the control of the co	Corporation or other private anclosed. 8 is attached.	
Please check the appropriat Aa. The following fee(s) are Issue Fee Publication Fee (No Advance Order - # co Change in Entity Status a. Applicant claims S	in 37 CFR 3.11. Completion NEE The assignee category or categor The enclosed: Small entity discount permitted for Copies Small entity discount permit	of this form is NO (B ories (will not be produced) e) 37 CFR 1.27.	inted on the position of the p	cant is no longer claiming SMA	Corporation or other private and the corporation of the	or credit any overpayment, to a copy of this form). CFR 1.27(g)(2).
Please check the appropriate. All Issue Fee Publication Fee (No Advance Order - # of Change in Entity Status a. Applicant claims S	in 37 CFR 3.11. Completion NEE The assignee category or categor The enclosed: Small entity discount permitted for Copies Small entity discount permit	of this form is NO (B ories (will not be produced) e) 37 CFR 1.27.	inted on the position of the p	count Number 08 -3425	Corporation or other private and the corporation of the	or credit any overpayment, to a copy of this form). CFR 1.27(g)(2).

submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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IN LIEU OF PTO/SB/17 (10-04v2) Please note request to charge additional fees during the pendency of the application.

Thease note request to charge additional fees during the pendency of the application.								
FEETBANSMITTAL			Complete if Known					
FEE PANSIVIII I AL		Application Number			er 09/830,230	09/830,230		
for FY 2005			Date		April 24, 2001	April 24, 2001		
			Vameo	Inven	tor Gil H. Choi	Gil H. Choi		
Effective 10/01/2004. Patent fees are subject to annual revision.		Exami	iner Na	ame	J. Tung	J. Tung		
Applicant claims small entity status. See 37 CFR 1.27	ı	Art Un	it		1637	1637		
TOTAL AMOUNT OF PAYMENT (\$) 1,373.00	7 Account				. PB481US	PB481US		
METHOD OF PAYMENT (check all that apply)					CALCULATION (continued)			
Check Credit Money Other None	3. A	3. ADDITIONAL FEES						
Card Order None	J. ADDITIONAL I LES							
X Deposit Account:	Large	Entity	Small	Entity				
Deposit Account 08-3425 Number	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid		
Deposit	1051	130	2051	65	Surcharge – late filing fee or oath			
Name	1052	50	2052	25	Surcharge - late provisional filing fee or cover			
The Director is authorized to: (check all that apply) X Charge fee(s) indicated below X Credit any overpayments	1053	130	1053	130	sheet. Non-English specification			
X Charge any additional fee(s) or any underpayment of fee(s)	1812	2,520	1812		For filing a request for ex parte reexamination			
Charge fee(s) indicated below, except for the filing fee	1804	920*	1804	920*	Requesting publication of SIR prior to			
to the above-identified deposit account. *** Charge any additional fee(s) during the <i>pendency</i> of the	1805	1,840*	1805	1,840*	Examiner action Requesting publication of SIR after			
X application					Examiner action			
FEE CALCULATION	1251	110 430	2251	55 215	Extension for reply within first month			
1. BASIC FILING FEE	1252 1253	980	2252	490	Extension for reply within second month Extension for reply within third month			
Large Entity Small Entity Fee Fee Fee Fee Fee Description Fee Paid	1254		2253					
Code (\$) Code (\$)		1,530		765	Extension for reply within fourth month			
1001 790 2001 395 Utility filing fee	1255	2,080	2255		Extension for reply within fifth month			
1002 350 2002 175 Design filing fee	1401	340 340	2401	170	Notice of Appeal			
1003 550 2003 275 Plant filing fee	1402 1403	300	2402	170 150	Filing a brief in support of an appeal	\vdash		
1004 790 2004 395 Reissue filing fee 1005 160 2005 80 Provisional filing fee	1451	1,510	1451		Request for oral hearing Petition to institute a public use proceeding	\vdash		
	1452	110	2452	55	Petition to revive – unavoidable			
SUBTOTAL (1) (\$) 0.00	1453	1,370	2453	685	Petition to revive - unintentional			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501	1,370	2501	685	Utility issue fee (or reissue)	1,370.00		
Extra Fee from	1502	490	2502	245	Design issue fee			
Total Claims 9 -31** = x = 0.00	1503	660	2503	330	Plant issue fee	\vdash		
Independent III III III III III III III III III I	1460	130	1460	130	Petitions to the Commissioner			
Claims 2 -5 =	1807		1807	50		\vdash		
Multiple Dependent		50			Processing fee under 37 CFR 1.17(q)			
Large Entity Small Entity	1806	180	1806	180	Submission of Information Disclosure Stmt	<u> </u>		
Fee Fee Fee Code (\$) Fee Description	8021	40	8021	40	Recording each patent assignment per property (times number of properties)			
1202 18 2202 9 Claims in excess of 20 1201 88 2201 44 Independent claims in excess of 3	1809	790	2809	395	Filing a submission after final rejection (37 CFR 1.129(a))			
1203 300 2203 150 Multiple dependent claim, if not paid	1810	790	2810	395	For each additional invention to be examined (37CFR 1.129(b))			
1204 88 2204 44 ** Reissue independent claims	1801	790	2801	395	Request for Continued Examination (RCE)			
over original patent 1205 18 2205 9 ** Reissue claims in excess of 20	1802	900	1802	900	Request for expedited examination of a design application			
and over original patent	Other	fee (spe	cify)	8001	Printed copy of patent w/o color	3.00		
SUBTOTAL (2) (\$) 0.00		uced by I		iling Fee	Paid SUBTOTAL (3) (\$)	1,373.00		
**or number previously paid, if greater; For Reissues, see above		-						
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SUBMITTED BY		(Complete	(Complete (if applicable))		
Name (Print/Type)	Mark J. Hyman	Registration No. (Attorney/Agent)	46,789	Telephone	(240) 314-1224
Signature	1M/V			Date	November 23, 2004



Docket No.: PB481US

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Choi et al.

Allowed: September 24, 2004

Application No.: 09/830,230

Confirmation No.: 3043

Filed: April 24, 2001

Art Unit: 1637

For: Lyme Disease Vaccines

Examiner: J. Tung

MS Issue Fee Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In response to the Notice of Allowability and Fees Due, mailed September 24, 2004, Applicants submit herewith: (1) Fee Transmittal, with appropriate fees; and (2) Part B - Fee(s) Transmittal (Form PTOL-8), with fees.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 08-3425.

Dated: November 23, 2004

Respectfully submitted,

Mark J. Hyman

Registration No.: 46,789

HUMAN GENOME SCIENCES, INC.

Intellectual Property Dept. 14200 Shady Grove Road Rockville, Maryland 20850

(240) 314-1224